Set at no 6 – March 20

		March 24	March 28	Apr. 1 5 pm
1	4.5	4-3	4.0	3.8
2	4.8	4-4	4.0	3.8
3	~~5.2~~	5.0	5.0	~~4.5~~
4	5.2	~~4.9~~	4-7	4.5
5	5.3	5.1	4-8	4.5
6	—	~~4.7~~	– 4-5	4.3

Apr 4 930 am

1 – 3.7
2 – 3.6 ~~– spot on right elbow~~
3 – 4.4
4 – 4.4
5 – 4.5(4)
6 – 4-2

Egg 2 spot on right elbow
1 3 4 { a – spot on left elbow – ant left abd 2 spot
b – spot on back – left – both ant tract
c – spot on right thigh – rt post tract
5 – left post tract

Apr 7 930 am 8 10 am.

2	3.5	– 6.1	– wt st right
a –	4.9	7.7	
b –	#3.9	– 6.0	– wt st left
c –	5.4	– 7.6	
5	4.5	6.6	– Bl st left
6 –	4 2 (egg)	– 4.5	– Bl string right

No. 47

March 1 = 4.4
2 = 4.3+

March 13 1 = 4.3-4
2 = 4.3
3. 4.3-4

March 15 1 = ~~4~~.4
2 = ~~4~~.4
3 = 4.3+
4 = 4.5+
5 = 4.5-6

March 19 1 4.2 3
2 4.2 - 3
3 4.1 - 4
4 4.2-3 -
5 ~~4~~.4 - 4
6 4.1 - 4.3

Set no 7 - repeat.

Apr 4 - 430-500 P.M.	Apr 8	Apr 12	Apr 21
1 - 4.7	4.5 -	4.3 -	3.9
2 - 4.4	4.2	4.1 -	3.7
3 - 4.6	4.5	4.2 -	3.7
4 - 4.8	4.6	4.3 -	3.9
5 - 4.7	4.6	4.4 -	4.0
6 —	[redacted] 4.6	4.4 -	4.0
7	4.7	4.4 -	4.1

March 17 -

Arrived at nest of no 5 at 7:45. Birds first appeared at 8:05 when one bird sneaked out along limbs coming from S side of tree to the nest - the bill & head were dropped into nest - a couple of quick thrusts and then the bird saw me as I was unfortunately close. 5 yds It paused several seconds - then worked on out to n tips of limbs - then to the top - here joined by mate. A bizzle was heard in general direction of this. The mate perched. The building bird looked to be the lighter of the two She left after two minutes down stream to east. Other bird soon chased a flicker out of the nest tree. - disappeared under tree In about 2 min. came up wet soaked from bathing and preened and dried. - primping etc. It left by 8:15.

At 8:30 Burnt to nest - a wisp of white cow hair (body) 2" across ½ et structure was broke in bottom of nest - evidently left there because of my presence & worked normally here birds worked in. A little had been added & birds gone yesterday but not more than 3 or 4 loads at

most judging from the size of the load of fruit & bread. Birds did not return by 845 when I left Eucalyptus - including pair with last fledgling still on wire.

At 905 arrived at no 7 - bird could not be seen on nest although north side was not visible. Certainly the tail was not to the south. Bird flushed as I clambered over rock & got up. - went to eucalypt nearest - a heavy (nest bush) flight) 6 eggs - mixed in color & size one very pale. Nest side. All very warm - some real incubation had begun. unless egg was just laid.

Arrived at no 6 at 920 - a bird was in S tree of nest row - flushed to E side of tree kept N. - is the ♀. No bird on - eggs cold - 2 in number Bird sitting on power pole after I finish looking. Later a bird seen on mustard stalks & one in tree gone. Gave "fuss" when both seen - could tell apart - ♂ pursues male along fence then to oak - several times squawking and fluttering as does female bird. It started with male

going & ground and returning & wire
to the female moved over and & began.
after several attempts & quit fiddling
she should further steps to look &
squawking in vain. Bird close together
in crown branches of oak - I do not
think the copulated or even got in
position as I think I could say them
separate in the leaves all the while.
Male left & W & female comm — & &
soon followed going only part way —
Fed alone first "inadvertent" &
each other but close together.
& goes toward nest but stops on
unlocated stalk - goes on for 2 min.
along ditch and at last near
the nest I could not see for sure —
I approached and found hen on edge
of immediately underneath nest —
moved up in tree — I saw the
head & beak right — nothing
else carried with her to tree by
bridge & as I approached back &
to nest - & did not accompany
her to nest or take. I suppose she
stayed over by female.

Went back & stopped at no 7. A bird
was on the top of the oak as I approached
but left & going over hill the
bird could not be seen on nest from
SE view - but flushed as I climbed

rocks as before. Flew to same spot on near Eucalypt - eggs warm - 6 in no. - now sure Incubation is going on.

Watch no 3 going along side streets - saw no bird - did not stop.

March 19

Arrived at no 4(5) at 755 - birds not seen about NW end nor at nest - sat by nest - at observation spot 825 - went up to nest - the white hair of last time was scattered around nest - fairly high up + new roan hair also some tail hair added. bottom relatively bare - a yellow willow catkin in bottom - very little really added - lining still rough - cup seems small - whole nest is in fact.
Birds - one - seen on flower near to SW as 7 left them - 100 yds away.

Arrived at no 7 at 850 - bird flushed at 900 was facing SE 7 bdrms - perched on edge of nest then to the eucalypts 50 yds off of usual point by 10 yds. 6 eggs only

they show a slight red color now — some at least. Bird running into tree as I was approaching on my second trip at 9:10 — not sure on third trip but on fourth trip at 920 ~~also~~ it was sitting on four eggs — had not removed a leaf that had dropped in the nest — bird flushed but could not see just where in eucalypts. Eggs that I had were getting a little cold. The eggs were returned by 925 and as I left I saw ~~the~~ a bird along upper bottom the ash.

Arrived at no 6 at 935 — male was flushed from the tree directly upstream from bridge — he flew across to the willows over the bridge and then on west as I approached. At 940 I flushed the ♀ from bird from the nest — I approached over bridge and as soon as she saw me left to go to west willows south on bank to west side. I saw her not while I write but left or had gone westward by 10. AM when I heard a squawl I began down some more and saw male with some sort of white substance in

thought it was food in beak. Other bird begged and made flew just over towards her — then out of sight and was lost. In a moment were found down row with ♂ — now had nothing in beak — squawking heard a few seconds before. Male seen to make a catch ♀ squawked and approached and apparently received food object — although male may have eaten it — she went off it and almost closed with bill beaks coming together at last.

Male caught something again and female begged fluttering wings but did not get it male seemingly oblivious — she did not approach. This repeated again. Male fed again but flew away and so no begging. ♀ shrugged in feeding — one time only did this unsuccessful.

Suddenly at 10823 she flew directly to little undulation ♀ nest — worked over ♀ moving up ♀ nest. In two minutes ♀ approached slowly to a point where I could see her on nest — male not seen. — She sat tight ♀ W. at 1035 a noticed a bird moving away from nest both birds seen then seen — I am fairly certain of the brown bird as being

bum the one to leave the nest and know she did before.

Egg incubated after 2 or 3 hours — three unmarked eggs were warmer than others were after several minutes more of incubation — they were marked / no 4 and the other no 3. — no 4 had bits of living sticking to it — other did not and punctures was on west side of nest. Unfortunately however no of eggs not known before as were not protected any incubation of nest. Can however contain that egg was laid in these 10 min. period.

Bird left nest to return. sat on nest from E side with male. Three several times squalled fluttering wings took would from and also flapped down beside male he had not been feeding - but was quite still and not at all excited when out. He did not respond was evidently a beggar and squatted beside him. The flew to ground - then to W side of tree. Later a bird I think the flew a flicker from the dust bank beside the nest. Clucking and giving a jay-like screech — both. — Then left for sat by nest for some time

– not close than 4ft to nest
& person & have been the nest
drive away a ~~bird~~ flicker from
same place system when I first
arrived – it was the male then
last time as I later have learned
by means of the remaining bird
being the female. The female was
close to the nest but not on it –
perhaps 15 ft away. She stayed
in trees and would intermittently in
nest – more so than at any time
previous.

I went around car across bridge
to give her a chance to return and
incubate – I heard a bzzzk bzzzk
bzzzk bzzzk series of notes –
may be by two birds but I am
not sure – about 5 or 6 notes in all –
(at 11:15).

At 11:25 – ~~return~~ I went to nest and
found female on – eggs warm –
it looks as though ~~incubation~~
were starting – eggs however were
quite cold – ~~kept~~ left me – when I
approached them – She may have
been sitting when I thought she
flushed from 15 ft away at
11:10 about – yet I don't think
it likely in view of the notes heard
later. This last flush – I came
close after she jumped on ~~nest~~

[illegible]

seeing me - and she flew on across field to eastmost tree in gulley

March 20 - left at 4:10 from house - passed the 3's and saw one at the eastmost section of tree.

Did not see no 4 - even with search with glass. - did not leave road however

What on to no 6 arriving at 4:55 - bird flushed as approached edge of gulley flew and joined mate at farthest tree ~~[illegible]~~ east - no note - 7 weighted eggs which go ~~to~~ cooking by 5:30 when I had finished 5 eggs now present

Had not returned by 5:40 - I left them Bird did not flush when a car passed along the road

March 21

Arrived at no 6 at at 5:05. I approached along ravine from the north as I entered the head of the ravine at 20 yds - she jumped but hopping - crashing through brush then flew 5 low the ravine and up the tree. In a couple of

seconds the mommy up & the bare limbs - a slight one on east side of tree. Then she gave (it was the brown bird) a cough of twits - low - as I have heard her do before - then within 5 seconds 2 more twits in succession. The male then approx mommy in from the E with food - mommy to female - who grabbed food - was not fed nor did she beg or flutter wings - she dropped to lower limb & ate food - or appeared to & then - no imploring sound later. male dropped to ground caught smaller insect came up to near female - both turned to other - female grabbed and swallowed food. They sat for about 30 sec - male left to east - Female dropped low in tree and in a minute swung up same to nest - swung up to it - smoked there for th settled and wiggled about as not facing me E. She would look about at moving things - birds or when I moved. - did not change position however - male not seen - at 550 - I stood up slowly but fluttered her - she flushed & left as before

down the ravine - then over to east side limbs - may have recovered an injured object. - male not called nor seen - ? approached to examine nest - the plover so far E written about was seen at such which I inspected next. male not seen - as I left at 555 no birds in sight. Eggs 6 - lined up 2 2 2 E W line so that they were arranged lengthways of body.

Nest No 4(5) - no birds seen in 15 minutes at nest nor female bird anywhere - remaining in nest on N of pond. 520 - 540. Nest with some new lining of blackhair and in bottom fresh leaves - and loose hair - curved bugs loose pieces. However very little done since last time. Eggs growing very small across - and becoming proportionately long.

No birds seen from Blind at no 3 - going on coming.

March 22 — 4 P.M.

Went direct to no 7 — no bird flushed and flies came around nest. Nest contained bits of yolk — all eggs broken and shining eaten — cotton yolk standing — no trace of feathers or shells on ground. One bird seen over hill — moved about 4 yards to S then E and with 2 birds not seen. Yolk was fresh enough so that could not have been broken earlier than yesterday. The only thing I can think of is a squirrel — possibly cat. Bits of the lining had been torn up either in the process or later.

Went on to no. 6 — Bird flushed as I came to spot in alder and I drew — the plant here and to S as usual when flushed from here. — gave a whole note then went to E side of tree — male had not come in 2 hours and she approached nest from SE and finally went on nest singing round and adjusting / flushing me to N. & then at about 4:40 — In a minute after she was on nest — male with bird — appeared from bush to E

and bit on E of nest tree – sat
several seconds about 3 min –
female did not move from nest
nor call nor fly. – male had
food in beak & small insect –
not a large grasshopper or Jerusalem
Cricket – he then flapped over –
more directly than the females
nest approach – to nest edge –
or twigs at edge – female grabbed
food from beak & gulped –
he did not thrust it into her but
simply got within range. – He
then went to E of tree and
then again flew off on to E tree –
where sat for several minutes –
I got up slowly this time
successfully in spot shooting female
went and followed male
about our tents – he was
less wild than when with ♀.
He seemed to more just enough
to get out of way – I would not
chase to frighten & only but
circled and left & flew moving
about autumn – not low as before
– also tried to move them to
nest but he circled back
round & went to. I then
flushed female crying from 5E –
she but me got briefly close on

I was just concealed by the tree. The facing was left eye. The figure N & W at first - then circled to NE field - as though she knew there to expect apple - she always gets taken when looked for & road is N. - however may have come N. - It looks like this - was his reflected position & actual position as I find it.

Eggs were in 2 = 2 row N & S - as before. - left 5.05

Birds not seen at row 4 - 5.25 - 5.40 - met - grouting out in bottom but little work added - not seen more out of range.

I did seen against ~~at~~ of no 5 training - simply as human - I looked through a four mm lens - I must be lucky although I cannot tell yet.

Only one note the duck of 9 heard today.

March 24.

Arrived at 5:15 by nest on No 4. — both birds were seen and heard along the SE power line on the hill where they were worrying a red-tail hawk perched on the pole. The notes were harsh and shrill & single syllaby — worrying shrieks. One came within about 15 ft of hawk but no closer as I could see. The notes were frequent and given by both birds.

Inspected the nest — little change except that a fine & soft, willow bark was now for the bottom of the nest. Went over towards shrikes and hawk — the gulls flying at 75 yds — the shrikes moved along the wire as I came close. Returned to nest and sat about 5 min. at 5:45 the one bird having disappeared from view 5 min before — appeared on top of telephone pole with nest material in mouth — dark colored — not more than one inch across by ½ diam. — sat around shrubbery — then down to nest

via the limbs above and D E.
Could not see nature on nest
as leaves were thick — no sudden
exit — & did not have big glass.)
Stayed at nest at least 2½ min —
then up & to top D E where just
perched — sat for 4 min — then
took off right — not dropping down
and then circled in big rounds &
came near nest. About 9.00
one bird — this scared me diaphanous
but did not show up at nest
within 5 min and I went on.
— saw bird on fence # 5 just as I
left — single bird & not mate/
Hard left wing however and may have
trouble.

Did not go to no 7 — nor 3

No 6 was on at 9.20 — or at least
flushed from beside nest & chased a
flicker away — I presume it was the
♀ — I did not know which. I scared
her or she went off after the flicker —
barely possible was the ♂ — eggs
seemed not at full set. 3
Eggs weighed 6 15 and 7 left
at side to allow for return.
A bird left giving three chimney
swift notes — & my approach
and possible mate — [illegible]

unit
two eared then a gone west, I think it was ♀ but diffent take turn to me - both may have turn paint. Anyway - birds much bolder than before.

Eggs - showing reddish.

Weather for part week - warm - balmy - light breze - cooler at night - no clouds to speak of.

March 27

Went first to no 4 - arriving about 8:30 - no birds were seen in 10 min on territory - a new or additional nest particularly such was discovered on the N W part.

The nest was little altered - the bottom building up so that cup is becoming extremely small - Bottom [illegible] has more bark and dried willow catkins. Little progress in past three days. ⅔ part of territory not inspected.

Went to no 7 arriving at 9 o'clock - scared a bird out of back of tree - went to nest and found larvae fullen in - beetles working on dried yolk - and the living perhaps a little more

pulled apart than before though
not much - I found bird before
it had flown from oak along
wires to S by roadside -
it moved along to where slight
rise crosses the road ; & then
I believe sighted another bird -
I think this one a ♂ - and gave
a few of the tinny screeches heard
much earlier in season - then
flew over field ESE to fence line
where I discovered two birds -
one singing - it was nearest
road and I believe the bird
that gave the tinny notes.
- Sang for two minutes crouched
low & no setting out - this done
hovered & stood north wind (clear day)
which it was pecking into ——
other bird went - presumed ♀
flew to cross fence - ♂ followed
and sang - chased them out over
field to north & first ♂ followed -
then the reverse. - Both went to
wires by road. Male sang a few
trills - simple - before then a trill
with rising final note - ♂ left
for willows by road - ♀ followed -
both moved 50 yds N along
creek - back to road - then
out over field near where pair
first seen. - nothing to suggest

building at this time of day — feeding occasional only.
Left pair at 10 a.m. — Believe there is female pair — not a runway bird and ~~arrived at no 6~~ a replacement — altho I can not be sure — only one bird was seen when eggs discovered broken but by no means certain other was not there as I could not find it again in the few mins I spent hunting.

Arrived at no 6 at 1015 — ♀ jumped as I took my post just N of Artichoke dump — flew low & up into willows to south as usual when I approach on this side.
Returned in a couple of minutes after moving to E side feeders. Flew direct to nest from south — up — and rather more rapidly than before stood over the eggs at edge of nest as usual.

At 1023 — made run to swing in on 3 ten — moved past nest 20 ft toward nest — ♀ jumped off — went past nest & stopped — which has now come to be the game food where not as loud as when given during laying period — feed — male from

a couple of feet away. Female hops up closer to them sat quietly. Both disappear in tufts — Must have had seen chasing bluebird from the which bird? but pictures was ♂. Both sat to view for moment. Bird returns to nest from over field to E — swings up to nest and through turns as usual — settled down at 1027.

At 1052 — ♂ bird moving closer as near as the artichoke dump — she moved off just as I got there — bird sitting tight — then finally beginning to go round to E end — then she sat for 4 min — returned to nest sat beside it to W. — stood off to get at — & seemingly was scared by a cord approaching from my direction although may have been some slight move of mine. — left ~~to E to S~~ — disappeared — returned from E & E end — may have fed in field. — came to nest as before — settled down at 1059.

March 28

Went to no 7 - first among about 845 - Birds seen on wire to S of old barns - flew over to fence line to SE - Then I found them on two posts 50 ft apart - & - a singer meadow road. Soon a buck heard from creek by road. ~~Found~~ An answering buck by scrubby male. Then a song note & two by the bird by road which then came over perching one post W of ♂ - sat facing original ♂ sang excited till. Then I think other male sang a little but was different & till second ♂ song. She sat thus for 5 min. & at 50-75 yds feeding along fence - neither ♂ fed but sat facing each other

Suddenly original ♂ attacked other on wing & close together over field & much scuffling of beaks - no notes - apparently clashed. invader towards - other bird among fence post. Invader - flew high - and was watched for 2 min in air when it disappeared on horizon - leaving valley to W.

Pair soon moved along hill toward oak - one bird on top - other several times went to tree - over

from ground - going into clump near top of perch - I might only have perched once headed to grass hopping nest - the presumed ♀. In nest of a blackbird - old - located near where she went 2023 times which had seemingly new sticks around margin - perhaps the work of shrikes - 6 not more than 10 long sticks enlarging basal diameter of old blackbird nest. Pair diff[illegible] over E hill - not followed further
Left at 940.

Went to no 6 - weighed eggs - 0+ on - tried to retrieve birds. Are egg not loosing in wt sufficiently.
Bird not hatched - left at 10:10. Bird off nest 15 mins.

No 3 or 4 not visited.

March 29 —

Went with Jean Linsdale to region of Niagara Hill Santa Clara County in order to watch magpies — saw only two shrikes and these near Coyote SW of Coyote — Birds also heard south of ~~Coyote~~ magpie grove but not seen — Pair that was seen seemed not to have been sitting — no nest found — both birds at times I do not think it could have been two males so close together.

March 30 — Up at 5 30 and collected a set of magpie of 8. from 50 ft oak.

About noon stopped home. saw a pair of shrikes near yesterday noted again on same section of wires.

Just North of Coyote a shrike seen on wire and a nest was found in a small scrubby oak — nest ~~was~~ 16 ft up — bird flushed — ~~but~~ no notes made — Set of 6 — nest very hard packed — lining of cloth rope to a large extent — two eggs fatter. — Now Set Embryos — no $\frac{1}{2}$ in $\frac{30}{2}$ — . no other shrikes seen.

Weights of Eggs

Mayfair eggs

8.1 — 8

8.6 — 1

8.7 — 2

8.8 — 3

8.2 — 4

8.5 — 5

7.6 — 6

8.2 — 7

1/3=
1/8

Shirk 3.8 — 1

3.7 — 2

Set Embryos

1/30
2 inc

March 31, 1930 no 6

Arrived 550 – bird in – cold –
bird did not leave as I came into
ditch as usual. Finally left as
I went to Autotube station at 6.05
flew to tree 15 ft S. – dropped to ground –
then to tree farther E – back could on
nest by usual approach in 2 min.
at 6 03 – male came and fed her
on nest – no begging
Bird facing E on nest.
Birds could not have been feeding for
more than 25 min at most before B arrived.

616 – 2 trips 10 nest within minute – Came
in from SW. both turn over bird.

6.16 Sun just disappear in valley.

628 – Fed – 9 lifted up lateral edge to receive
– no note B came from SW on field
direction of bridge.

632 – B came up/ saw – female turned
head – half opened wings but no
perceptible flutter – opened beak slightly
but only to groom bird – made at
nest, edge of ~~it~~ lifted up first eggs.
B fed from – SW rather than SE
edge of nest as ~~before this~~ on previous
trips of morning.

640 – left nest of own accord –

~~just stuck not looks~~ 6#2 - back on
I am now not sure she left - just
could not see her as usual. Left -
saw fly as I moved - not know
she was gone before 6#3 - ♂
came & went gone at 6 o'clock - ♂
ruffled and bowed - ♀ appeared - both known
- ♀ is fed I think - ♀ back to nest at
6 46.

At 710 left for our station - found ♂ -
towned creek - 2 min later found ♀
on ground some time 705 - returned to
nest at 713 - adjusted ~~self~~ self on eggs
for 15 sec. - then fetching me - ♀
rather than ♂ E.

Jay appears on willow by bridge -
at 720 - male shrike appears and
sings several (dozen) low tuneless -
shrike & jay disappear chasing. -
shrike heard singing 3 or 4 more
similar tunes & then ♀ known to
S. at 722 - ♂ sun in minute
flying over field & oak. appears - he
surely have fed her. She is seen
feeding ~~twice~~ three times along
fence. Returning to nest via
SE fence at 725.

They have several approaches
to the nest a - SE & SW and
certain variations seen in the
middle - & more nearly E. Probably

other immediate approaches as well as flight lines along the N ~~side~~ ~~would~~ side would be kept under observation.

Machine passes at 730 – bird gets up on bank 1 ft above nest to SW – would till can pass – at once ~~dropped~~ settles on nest.

Bullock arrived last Thurs and has been present ever since

A Cowbird ♂ was about the pasture today – seen once flying over and heard repeated glossy gurgle and thin high whistled note.

Male ~~[illegible]~~

Male seen several times near oak at 753 – blew past nest perhaps due to fright and then continued attention or chasing away blackbirds I moved too rapidly while watching and scared female from nest to E perches then toward male to willows E of bridge

♀ returned at 8. Spent 5 minutes – approach up N side as usual – dropped below nest & entered slowly

by SE. - No sooner settled than
D followed in line of flight & entered
same defiled funnel - starting near
same point. no begging could be seen
although my slightest every motion
could not have been detected - man
moves D a N limb pitch - but I
could very easily see & clearly
detect D's each - he moved thru
DE limbs - hidden in fast growing
leaves.

805 - man rises from top of
tree by bridge 3 / closed E - -
moves - to test. - then disappears

825 - Left about this time which I
was writing. Seen near ground in
5 minutes. Returned in 2 min -
by a route through trees - under
bushy part - stopped below nest
on limb DSE - worked out along
limb over slightly different path
from last SE return - same
as man one used in approaching
from E with food.

842 - rises up - rearranged self on
eggs - may have effected a
turning of eggs as motion
was considerable - However did
not see bill - now facing E
was - facing SE N - before.

9 4/4 - Raised head - second later more came from E - lit on E part of nest group of willows - female not flushing & silent - never over to nest edge - she ~~bent~~ beak grabs food from mate by twisting ~~beak~~ head sideways I seem to swallow at once. Mate leaves to E.

Food always small enough to swallow it seems. no

Left at 9:50 - bird not disturbed from nest as I left.

No 4 - Visited at 9:20 - 4 eggs - warm - bird near by - ~~they~~ were marked 1-4. Bird sat within 25 ft on the downstream - gave Schyra-ă-ă- note in warning - sat there on limb throughout my inspection.

Went back to nest - flushed as I walked by on trail - still 15 yds away - mate not seen.

April 1 - No 4 has five eggs - I could not see bird leave as I approached but eggs were warm. I marked the new eggs 4 and 5. As I was doing so - a bird alighted on nearby limb as before and gave the soft "worry" schreck as

before. I left tree and bird returned while I was within 25 yds — returned 2 min after I left. This between 4.05 & 4.10

Went no. 7 and found pair flying into oak from S as I approached — they were very close together as though in pursuit (play). a ~~low~~ song thrush given on the wing was heard — One bird ~~returned~~ to tree top — other in N side of tree. After 5 min a bird seem to come in from north and in a few seconds leave again. The bird on top of tree then moved to north part of tree and in a minute probably the same bird came back to top ~~post~~

I approached — and bird on top heard singing — flew to S on wires. I went to oak and wrote notes ~~tal~~ from 4.50 - 5.00 — Did not appear in five mins - day windy but mild temperature — no clouds in sky — Birds may have sought shelter from wind in the oak - yet wind strong on top of ~~out~~ oak where thrush perched — Left 5.05

Arrived at no. 6 at 5.20 — Bird flushed as I came from S — but did not leave tree. I set up scales and

~~3-8~~ in two minutes she returned and tried to get on nest while I was within 10 ft on the ground Anne settled on nest but at motion of my hand left. Made no noise but was very bold – & not about – bold perhaps because of cool wind. I weighed 1 then left to let her return for 4 min and again the eggs wt – Then weighed other eggs – (afraid scale not accurate & significantly polluted from wind – or else 4 & 5 are dead as they did not hatch but appeared to gain or lose none at all.) Bird returned readily though scales were set up a few feet away Eggs not pipped

was conversing with nesting chant – ane beholding A.K.

Left at 6 PM – & had not appeared in 40 min – no finding thereon or part of female who did not have time to get to ground.

Apr 3 – arrived at no 6 at 930 – Male found on bridge or tree beside it and flew ~~north~~ east as I neared him. Female flushed from nest as I approached from S. A cow and

calf were directly beneath her but she was sitting regardless. all eggs were in tact – no pipping – 1 & 2 were closely inspected for beak scratched or pipping but none could be found – thus eggs were not hatching at what I thought to be beginning of 15 the day.
I found nest as cold as first time when cold wind was blowing. Did not attempt to return at night I kept her off for 5 mins. – I left at 9:45 A.M.

At 10 – started watching no 7 from the road – start in the early a.m. – no birds seen but at 1:05 a bird sang clink che clink che clink – about 25 times – I think it was in eucalypt or on hill at 5.
I soon located the singing bird on the wires along road to S. & I walked up under the eucalypts were I had seen bird go onto before – several days ago but could discover no nest. & Went on up to hillside to watch – male or singing bird went up to top of oak & then after several minutes to the eucalypts – then dropped down to same place low in trees as before. – "Q" at once jumped out near him from

what later proved to be nest and which I was certain of at the time. Male then sat beside nest – within a couple of feet for 40 min – only nest turning around (10.20 – 11.00 ish) finally moved off then eucalypt. I marked the four eggs which were in nest. Evidently last egg laid by female around 10 or 10:10 ish. Was not sitting after that. Birds made no demonstration or were close approach while I was at nest.

Went on to no 4 – bird sat close as I came up from behind tower willows and did not flush till I suddenly scared her by shaking branches. She jumped off – left – made off round SE edge of tree – sat close by – seemed to be larger and perhaps lighter but can not distinguish in this pair with certainty.

Nest had 7 eggs. I took one. Last laid – 0 incubated – it was 3.7 fresh – very small as I suspected. Male very fond of other 9 presumably due to rapid plumping.

Both sat were closer than before – female nearer in same tree – made no usual flush of 2 after flushing – that is the first least. Female gave a modified

bzzzk - and then schwa schwa —
Tzzzp & scrach. - coo - jay like.
Left nest 11.40.

Apr 4

Bird seen at 5 no 3 in passing -
solitary.

no 6 - bird sitting - flushed at
my approach at 8.40. - Eggs in nest.
Left no 2 with a definite pip hole
at large end - 2/- with distinct
cracks in similar position but no
hole. Three - with possible scratching
4 & 5 likewise. - 6 nothing noticeable.

Bird returned almost within 30
sec of my leaving - I kept her off
5 mins. / - made no attempt to
return while I was there - however
morning is warm & sunshine is
most quiet.

Within 4 min - male appeared
with food - a large fine -
came to W part of nest bank -
slow in coming to ♀ - ♀ jumped
up - came a foot towards him.
Grabbed food after a slight wing
flutter (rapid) but no note.
♂ flew 5 m within 2 minutes &
handed food or not I could not see.
Then ♀ sat within foot of nest

for a minute – then left.
Female returned in about 2 min and settled to incb.

Eggs weighed between 930 – 940 –
Bird anxious & return after 5 min –
Got within few feet & shot several times. – Gave Sokwaok – note –
with rising inflection – Sokwaokka
begging cry

Went on to no 7 – eggs warm although I did not see bird flush – 5 eggs present – last had white specks on it. ~~Did~~
I did not stay but a minute. This at 10:10.

Returned to no 7 at 430 – eggs seemed warm although not quite as usual perhaps due to unusual delay in setting up the scales – Eggs weighed – Birds gave the begging cry – warning note. – Left at 445.

No. 6 eggs inspected at 515 – no change from morning – eggs were in 2 & 2 row as usual. Pip hole in 2 might be claw mark –
I did not stay.

April 5

Arrived at 930 at no 6 - eggs intact - bird behaved as usual. Eggs one and three showed definite cracks around the side - near equator - not at end. I believe I was mistaken yesterday in thinking cracks or scratches were showing at end. no 2 - showed no cracks - hole is evidently a nest check - claw mark. - may have killed embryo. 4, 5, 6, not inspected

Visited no 7 at 10:00 and saw bird sitting on nest. - I thought bird was sitting yesterday & and may have been at that. Egg unfolded. A bird, presumably female which had flushed as I walked under tree, came back and sat close to me in tree - 5 ft - was apparently unmolested with behavior. - Gave a couple chucks but no other notes.

Returned to no 6 at 5:15 P.M. - bird on as usual. - Eggs all very definitely cracked around equator - some for ½ cm at a time - except eggs 2 & 6. no 5 had largest crack - a fine

loose and projecting. Eventually I was misled by bird sitting after 4th egg laid & was through the ~~was~~ for not for half an hour I know of & after leaving for leaving laid egg.

I presume that incubation started effectively next day after the fourth egg was laid or even later through ~~it~~ I think 6th egg behind others. Left at 530.

After 6 - Arrived at 940 - no eggs hatched no - 4 and 6 inspected - 4 showed another out pushing. 6 was punched out in one place as others were yesterday - 3 - had many pushings out. Allowed bird to return - then flushed again ~~etc~~ in fact several times - She seemed very shy perhaps in part due to warm morning and the presence of V - an extra person. At 10 - the egg was seen with ½ cm hole broken out - egg no 2 - hole where claw mark or as how I feel must have been pip was located. Bird dry and feathering very noticeably - bright orange in color -.

During next hour - bird left frequently I am almost sure sometimes with egg shell fragments as at 1030 - hole was

slightly longer and chipped shell
from inside or the skin of the bird
Several times bird was assisted by me
however as the usual records.
Several times she turned and
juggled eggs under her. This
rather than the bill is the method
of turning eggs as brooding
egg [illegible] pole was changed
by this method alone.
Male fed female on nest once
and then again off of the nest —
the female begging with food shown
well on the beak — then leaving and
going male to receive food. — begging
with queen again. Male sat on
nest during part of the time after feeding her
on nest — I have much respect for me
this pinch in going to or from nest.
At 11:00 AM Bird up in nest
and seen to bob head up and
down in feeding or begging position —
then left with large portion of it
— the egg shell eaten as it formed
later. Young one from egg no
2 marked with ink spot on
right elbow. — Young were range
except for bill and feet which were
yellow — skin dry — some
of the very short down feathers
not fluffed out as yet —
Female returned — looked in
nest before settling but did not feed.

No notes given by parents nor any effluent action found present & hatching of no one. — 11.25 —

Arrived at 410 — finally flushed 3 more young hatched — the males on the nest left at 9.30 a.m nearly invisibly. Young had no more down than when hatched — that is single row on abdomen on either side and along ulna. Young at least three including first hatched found for food — a faint stamp tramp heard — posture with head down between legs — orange color due to yellow of skin and red blood beneath.

No 5 cracked on one side for one em — showing red of allantois, and large cracks & cracks toward large end from equator. Parent & right hand — gave true beggiment shrill screech coming within 2ft of my hand — other bird within 8ft. — I marked young and took obs. foot. Bird quite as usual now with adjust. Male stays close now — in view nearly all time in the tree by nest — & gave low screech as she settled on nest. Male approaches close but does not feed. Female left in about ten min — male came close — looked into nest — did not feed nor sit. Female gets off about every

ten mins of own will but in two times I have watched close did not feed young on return even though they all came heads when approach. — ♀ does not appear to do anything when off.

All time ♂ egg shell has been removed.

Off at 5 — returns in 3 mins — male approached feed then stopped 15 ft short — she went on — paused — dipped head once and up — then settled down. She must have received this food from the male or else caught it in the as she did not go to ground and did apparently receive food from male as they came together — as usual when all gets food — must have been small food. as could not see it in beak of either bird.

Off at 5.08 — left ground male did not receive food — went to ground — male & nest mat — sat nest with — ♀ appeared — ♂ left — female fed once and then settled. — male appeared ~~off~~ off with visible food — fed female on nest

off at 5.14 — returned at 5.17 — once like to ground — returned with full — no food seen — sat — they ♂ not — in view all time — yet fed young — did not receive food male who ~~appeared~~ — did not feed as she left this visit time.

male did not approach nest on this last absence of female as he has several times before —
Male has not yet been seen to feed young but did female on nest
Young looked like it had little down strings in stomach — showed through skin — belly distended — not so — or so much when hatched — umbilicus closed over — a small pit.
Inspected nest again — picked up egg ~~Returned at 4.40~~ - ~~at 5~~ — was well — cracked from beak for several min. — could feel young moving and saw it punch out (called beak opening — then egg cracked away like ~~from~~ fenestrated — perhaps due to my holding — yet young was squirming and thrashing about). At 4.30 picked egg with open — head peaked loose flap just barely moist membrane at large ~~end~~ end — Then pulled this part off — bird rolled out of lower part of shell as I held it in hand — all connections loose — umbilicus a mere mucous thread which parted as bird rolled out of shell — whole process took 10 min with my aid. — all remains weighed .3 g — thus bird weighed ~~4.0 at 4.0~~ 4.0 or 4.1 at hatching. — Time of hatching

just 5:30. Small bit of excreta in bottom of egg shell. – Coverlets practically dry – like tissue paper.

~~Mar~~ Apr 7

Arrived at nest 9/5 a.m – bird not on – 7 weighed egg and 5 young until 930 – egg ~~2~~ – fully pipped as others were yesterday a.m.

Will daylight hatch soon

Birds came close to nest but were silent – did not happen to be near when I was at nest.

Bird on at 930 – young getting cold.

10. a.m – once at 9/5 and again at 955 – bird left but both times did not catch nor feed on returning but looked at young. One jumped off and sat beside nest then looked at young – not feeding – then settled on them – this not due to fright.

at 10.05 male appeared with visible food from W side – fed to female who wiggled throat apparently swallowing – she left at once – he sat by nest doing nothing – did not peer in. She returned – may have gone to ground – but looked and did not feed – then settled.

male left as she approached.

1006 – ♀ left as can found. – sat preening on east perches – Returned – dipped head down – I suppose was feeding – tail to me. However I did not see her go to ground.

Day – is broken cloudy – a slight breeze – moderately warm.

1015 – male approaches – could not see food in beak – comes to female might have given her food – ♀ leaves – male sits by nest – female returns – may have gone to ground. – ♀ dips head twice. Then settles. Male leaves as ♀ returns.

1022 – male brings food – female stays on – receives it – did not see swallow – male sits a couple of seconds – leaves as female remains on nest – as he leaves – female stands – backs up a little – turns head straight down and feed at least twice – then settles down again.

1026 – ♀ off to exit perches – ♂ joins her after ½ minute. – she leaves to him, no begging – receives food – comes to nest in 30 seconds after working mandibles and ~~feeding~~ perhaps feeding on limbs to break – entering feeding – food too small to see –

1028
– then ♂ nest – tail & me – feeds twice – pronounced jaws and vibration of head at each dip & settles.

♂ – disappears – chirps, are heard breaking in distance (♀ on nest) – is it an invader? – yes – two voices heard. – a squabble as Graphium canopus bird and also Lark. – There seem to be extra chirps around at this season. – (these were) ♂ as not below there is a pair adjacent to E. – although may be same invader as earlier from eucalypt grove.
1034 ♀ comes – ♂ joins – they bow feed
1035 – make approaches with small but visible food – looks in nest – dips head once but food still visible – moves to side & waits – ♀ not present – moves away & feeds – female approaching as he does this ♂ fed twice – female comes to other side of nest – feeds once – both sit on opposite sides – ♀ settles – ♂ leaves.

1041 ♀ off – flight I think this time. – down to ground – returns at 1044 – but did not feed young. Evidently foraging for herself.
Foraging mostly if not all along ravine and vicinity of bridge.

1050 – fed again – watched from distance & left at 11.00 a.m.

Apr 8.

Arrived at no 7 at 9/0 — bird not seen to get off — but egg warm. A 7th egg (right) seen laid — Egg weighed — a bird heard fluttering about through branches above me. / Left at 9.25.

~~6~~ Arrived 9.50 at no 6 — ♀ on — brooding — young not hungry — heads all held down on my approach. Bullin greatly extended [illegible] no 6 of course disturbed and was marked with black thing. Young showed no more growth & skin a little darker middle back tracts — scapulars and lateral edge of pectorals taking on dark pigment. Eyes light closed. — Track note about the same as yesterday ~~Left at~~ Went to post at 10.15 bird had gone on while I was near (15 ft) after several unsuccessful attempts — no note — evidently much anxiety to get on nest and brood young — young not fed when she did go on. Evidently young will fed up — and feeding [illegible] at this hour — not so yesterday — probably could it seem them so full early in the day when younger — also perhaps could not cover them as much

male sitting in tree - but has not brought food.

Nest was perfectly clear - young did not bother by begging as do cardinals - however they have power now to grasp with foot - perhaps nothing to hand as do - wing has little hair of a coarse sort.

1041 - Bird flew off joining mate on east perches. - watched him - receiving an insect with speed wings quiet readily seen - worked it in jaws - brought to nest - looked in - his action gave a low schwa. ~ ~ - Quality something like Big Boys - conversation chuckle but with rising inflection - dipped head slowly but came up with same food - did this several times - still retaining food - food then offered somewhat juice broken - all the time giving call - It then looked like she swallowed the food although may have delayed part or all to young. - settled on them.

1045 - male came - with small visible food - gave to female who offered to swallow - did not raise from young

10~~50~~49 - male came again with visible food & pumped it to left at once not reckoning it & stood looking

moved ♂ edge duffed once waited
10 sec. duffed again and a 3rd time
soon after 20 sec. — no note given
as with ♀. ♂ left after waiting by
nest 30 sec. more
1050 — Female returned — fed twice — no
note given — settled on young. — a get
the impression she ♂ stops duffing in
nest that young are released at fledging
age — badly shell fed.

Much brooding still — yet day warm —
clear and occasional light breeze

1054 — male approached and fed
visible food ♂ ♀ — she swallowed
it remained brooding .. ♂ went to
perch nearest nest for ½ min as
soon as feeding ♀ — then ♂ & ♀ feeches

1105 — ♀ left due ♂ unavoidable "guard"
young did raise heads — ♂ touch ♀ —
breath or jar of nest — nor
touch or lip with bill but a sch —
roughly stimulus ♂ note heard from
♀ brought up several. Thus young
may not have responded earlier
because of lack of this note yet
I know they were not
hungry as captive birds raised
without note when hungry &
readily recovered. — This seems
♂ be a stimulant note.

Ave eye seem to be a slit open at this last inspection – upward when head raised.

Left at 11, ~~7~~ 10 ♀ fluttering in tree as I write. – no note, however.

March 9

Arrived at 8 05 – Young would not raise head for any kind of disturbance note etc. – Female back on at 8 09. Off at 10 12 – back and fed once at 1013 – brooded.

1014 male brings visible food size of large fly or small wasp ♀ ♂ takes and swallows – throat moves – at least ♂ does not give to young.

8 16 – ♂ comes with visible food – ♀ does not take – pair not call once a while of them – ♀ leaves – male feeds ~~at~~ once – then reaches down grabs something swallows – ♀ enters? – looked more like untouched earth.

8 17 – ♀ returns feeds once – broods ~~[illegible]~~ Male uses it perch again – his particular habit.

8 21 – male approaches – ♀ jumps off – leaves sort of visible food – male next approach always slow and usually longer by way of W limb. Paused at nest – pair not call once a while.

louder than ♀ yesterday — differed
at nest but unsuccessfully as came
off with food as before which he
then swallowed apparently food not
ejected
Feedings interrupted by motion
to keep cows out of scales.
Bird not brooding nor feeding from 825 —
835 ♀ returned. did not feed — no obvious
food in bill and then brooded. — this absence
all normal I believe.

Weighed birds - almost all feather tracts
ejected - ventral with feathers show pigment
under skin - eyes no more funed —
skin more wrinkled.

Bird not on from ~~♀ ♂~~ 840 - 905
while handling birds - at 9:05 not
around — nor did appear — at 925
I scented ♀ on nest found birds in
NE field — should them to nest —
back to fence corner & female
should down raise to nest — where
she was found brooding at 930 —
I left.

April 11 — went by no 4 — parent not
flushed but eggs ~~not~~ warm - Birds
did not appear while I was at nest —
eggs six (7 with one I took) nest
dropped over to one side but still

secure. Birds had come to nest & scratching as I climbed down — one attempted to go to nest the third off. Are the birds gave a bark. I walked nearly two — birds very tame. — Left after being at nest 10 mins at 3 P.M. —

Went to no 7 — bird not seen & flush eggs warm — weighed with some difficulty due to stiff breeze locally — day clear with light breeze generally warm in sun (comfortable) Bird came & gave ratchet cluck with 15 ft — grey while I was at the nest. — otherwise not seen or heard — a bird (3) sitting on ~~nest~~ wire 2nd fell South — the usual outpost as I approached. 5 grey and frequently flushes near — flies to 60 - 70 yds from nest.
— 4 20 — 450 —

Arrived no 6 — at 405 — birds not at nest — young bird heads up for food at each breath whistle or any disturbance. Feathers all becoming clouded but partly broken from surface of skin.
Saw & fed female on East perches.
— 9 later came to nest which is in warm sun. Brooded for 5 mins

them stood beside nest ½ min and left. ♂ came with food while brooding — to n fledg — but left without delivering to either ♀ or young — 415 — ♀ brooding again — seems to be sitting on them but hovering them. Probably fed them or some of them on returning but this return not witnessed. Bird left as car passed at 422.

At 430 ♀ bird returned — could see several heads raise up with open mouths but not until she had reached nest edge. Shifted once only and then settled on them — still brooding them with eggs but I suppose also do both of young — she is not standing.

I get the impression that the feeding could be more rapid as far as young are concerned this was not so earlier. Parents however not working all the time — it seems as though ♀ sat unnecessarily.

~~445~~ 436 — left ♂ join ♂ who had been insect siege of cricket. — ♀ took it them disappeared — returned at 445 — heads up before nest reached. — Fed twice — dipped down and may have taken something which she ate — can it by the feces??
Bird opened several times afterward — many

have been remains of insects however.
- Scuttles & beetles.

I scared bird off who was still brooding at 457.

Birds were watched and found to have the normal feathers broken thin and white feather tips just visible — The scattered abdominal down seems to be worn off ~~coat~~ or at least changed in appearance — the single rod occupies the centre of the feather tract. All eyes are open at triple of excitement. — Birds opened wide when held in hand or on the scales — but soon tire and drop head flat and lie sprawled as if dead.

O' — made much fuss today coming within 1ft of head — beak open — chattering and giving short belligerent stabs & hiss/screech. Also has jay like screech. ♀ sat nearby but not close and paid no notice. ♂ stood, did all the attacking. Once ~~I left~~ I had left the nest — the male moved away giving occasional jay-like screeches and finally settled in and brooded. — did not feed — this at 520. — Bird brooded when was first returned at 530 at which time same attack resumed. I left at 530.

March 12 7th day

no 6 - arrived at 230 - young warm but did not raise head. Skin turning dark - ~~face~~ bill - except edges dark dusky flesh color. Feathers - all showing tips loose or break through 1 mm long only - Shafts of some of secondaries 2 mm long. Birds banded and weighed. Female feeding this time as well as male who acted precisely as yesterday. ♀ had longer (slightly) & less intense shrieks of jay alt - also gave rattle. Did not observe as close as ♂ - closest was 6 ft. by ♀ - 2 ft by ♂.

? finished at 3 15 when ♀ returned at once - ♂ to nest & gave a few jay screeches.

more ♂ Female visited off once or twice in ~~nest~~ interval fed young infrequently. ♀ heard to beg once while ♂ was disturbing young.

Young evidently hungry at present. - not dead so fed as ~~they~~ are too young. did not beg when out of nest even as last time. Yesterday one bird had attempted to swallow wing of another, had it in throat. Extracted it with difficulty.

3 25 - male approached - no visible food. Did not go to nest but gave 2 screeches (jay) & departed after

by the bridge.

430 – Female jumped off – did not leave birds – stunned – inspected nest and started to peck & tug several times pulling the birds leg up with beak above rim of nest – I could see her do this for several birds. Finally in determined effort to clear nest pulled young one out by leg and fluttered down from nest – I could see it gasp – seemed to see eyes & beak by young – then left & on to ~~next~~ ~~nest~~ – fed nestlings in & turn. – Some squabbling – then begging noises. But soon settled to nest and settled down young on ground. ~~Female~~ jumped up – flew to tree above where young was – I had refused in nest. Can't to nest again trudged at legs but did not number yearly – then several times every two three or so jumped off returned & tugged at boards but less each time.

Got food for self from nearby. Feeding not over fed as yet & it is 355. I am leaving

Bird numbers flushes easily. – ~~cold~~ cool breeze – slightly cloudy.

Young now show hunger reactions strongly only mildly. I after pipping those some! – ♀ not quiet while ♂ male demonstrated – quiet as yesterday (both of them)

April 14 Monday - 9th

Sat - mor AM was rainy and some heavy wind. Several extremely heavy showers during Sun. evening and night.

I arrived about 9 to find the female near the nest - showing very wet tail and bedraggled body plumage. The male was unspotted by the rain. Both came over and chucked and gave usual attentions - each over jealous qualities. Morning cold and still cloudy.

Young were beginning to be protected by the body feathers which are 2 or 3 mm long in places. No particular change in reactions except that they were stronger. Had held up a little more but young on a flat surface duck head down between legs.

Female repeatedly attempted to come on and brood after I had finished weighing - she would sit a few minutes - then some visitors and leave. The bulk of the young is so great that she must sit high up over with the rain - and she ~~may~~ has difficulty in covering over all of them which may contribute to her uneasiness and frequent jumping off & forward

she seems a little more bothered by my presence than usual – yet this nervousness is not all due to this as at times she is oblivious of my motion.

Male still feeds her and she begs very readily however when off nest. Young not hungry at any time. Could not find out exact of hen and ½ to 1030 – did not visit nest at any time. – birds usually up to margin.

Stopped in at no 3 – 5 W – and saw birds make two trips to an acacia one block west of where I have watched – nest hen with young about 2 days older than no 6. All legs in a condition of growth so hoped that they could not be managed but they around such unlawful feet. Can bring test with feet – more than proof 6 birds today – even though the grass being effected. – these birds can not [illegible] sit up on flat surface yet. – scramble along in awkward way with head down.

Parents came close on wire. – one notes report a few chirk notes. Nest 8–9 ft up – can reach into it from fender of car.

Apr 16. -2. P.M. 11th

Young - well feathered out - primaries and secondaries broken these sheaths at tips. Tail ½ cm long - bill dark except for tip and angle of mouth - margin unevenly is darkening - egg tooth still plainly visible. Much strength gained - just beginning to look around at objects as they fly - heads up at times in the nest! On the ground they can not sit up nor hold head up - belly bare and distended - feet flesh - grayish blue. - The small feather distal to primary 10 is covert and then beyond that is definitely a 11 primary - its insertion and shape most positively suggest this - lores - bristly with short feather sheaths. Bird not afraid. Open mouth at disturbance by hand or with shaking of limb. Weighed and photoed Young

Young turned at first and clutched and gave my screech several times at 14 - left it down there. Male came but did not raise fuss as before - female gave begging note but not seen at the time. - Bird then left - staying out in field - occasionally coming with food to rest perhaps but leaving soon after without notes. - evidently no urge for brooding and resulting marked more relaxed attitude.

At 3:00 sat back to observe
— young now hungry whereas they were
not at 2:00 —

Parents appeared by 2:10 — no food —
sat about together as when building
nest. Made no attempt to come to
nest — sat usual post — & Compton
away over field
young not afraid. — put heads up
for food.

Compton says while I was at nest
birds would fly away by time
out over the field and hover at
10–15 ft watching me.

Birds would not come to nest — then
friendly female approached but
— scrunched and worked about
under limbs where we had disturbed
them 1½ from nest to photograph.
Also changed position of feet & legs
beneath bird have disturbed her.
However such disturbance before
have not affected parents do. —
She sat beside nest and gave
more scrunches — did not feed
but ejected large fecal sac
1 cm in length or more and
seemed to wait further time
disposing — when my going to
nest young folded to inside heads
as had done just before —
eventually scrunch signals young
or else the parent at nest. J

Left at 330

Stuffed at no 3 - young 6 in number.
Found a cow white Colored Lad
came within 2ft of me. Young can
just easily sit on finger & show
belligerence - a rough squeak and
ducking of head with opening slightly
of beak & nil for good - this pair
and action not true of them.

Note there are with no 6 today a
definite chirp - replaced or developed
from early thin tone.

Young in no 3 nest ducked low
as I put my hand over them and
young like before to nest which is
beginning tipped and flattened out
on one side. - hold head down and
close eyes - belligerent only when
in process of extraction and
in handling - but get over it after
a few moments handling.

Fri Apr 18 13 dk

8 30 – arrived at no 4 – bird on nest top but not seen to flush – nest badly tipped due to heavy wind of last week – eggs however warm even though difficulty of keeping them in nest was considerable. Egg 4 shows definite out-pushing and probably that of 1, 2, 3 also. But 5 – showed definite internal excavation. 6 – was touched summary. 7 shaughtened nest up and bird clucked and crouched as returning to it but at the time tripod fell finally settled.

A fine mist falling. – rain at times.

I left at 8 50. Two birds equally light – 4 or with lights if anything.

Arrived at no 7 at 9:10 – no birds or note – nor any heard or seen for 35 min while I wrote notes.

At 9 45 I went to nest – bird sitting and flushed as I walked under tree. Birds – both – came equally close and chattered with weight of a racket. Nest still well shaped and the cup deep. 7 eggs OK.

Arrived at no 6 at 10:05 – both birds on tree – I did not disturb them but went around to the nearest observation post and

waited — no warning notes given — both parents sat (one) ground on the rail perches. Young moving about at frequent intervals — turning head and 2 pairing preening as did cage birds. Parents regrouped in aviary 10 min. Then 9 left and returned at 1020 — with visible food to feed — one young only receiving — She at once picked up O and removed large fecal sac which she took down the gully — dropped and then wiped bill. 9 then sat around for a time. Male left and then fed young at 1035 — went to one edge of nest and fed — then waited while crowd heads raised and then lifted twice to a late raised head at other edge of nest. Did not clean nest. At 1045 I approached young did not respond to me but stuck low and clung with great tenacity to nest and the bill. It was not difficult to remove and weigh them! The large gids gave a screech-like note — husky as did young at 3 but not as belligerent as those at 3 — only a trace of hair in one of them — then it left nest into bagging and tried to

Swallow my finger. The smaller bird flew up for me more readily than other — was not at all afraid and gave only chirp note. A faint queylous chirrup can now be heard when pulling from my post. All birds legs & all removed from nest and handled — can sit up on finger fairly well — the larger ones — but cling to any object touched.

Nest is very crowded — one nearly sitting on the rim — bigger one down in middle and in bottom.

Secondary ½ mm fine of sheaths at end.

Each one voided as I extracted it from nest — one bit on edge of nest when I allowed it to remain — another bird backed to edge & disturbed on edge.

Parents came close — it was cloudy and one a trace of wind. — came as close as at any time giving usual fussy note (quality of ♀ & ♂ different slightly) — ♀ at times gave faint chirrup as in her excitement — not audible to male

I left — ♀ returned and still gave leg — then would break

old with jay scrunch - evidently disturbed at various derangement of young - seemed not very - frisking usual trips and occasional grins - scrunch and by - noted in the process. Young did not put heads while she was making these notes. Male returned and put to him & tugged at him - flattening wings - but nothing resulted. Finally quieted down - young again nursed peacefully. While weighing young had gotten so they crowded up on my hand - just then a bird gave warning - jay scrunch and heads dropped & eyes closed and I could not get them for 5 min. - when they recovered somewhat.

~~No~~

No 3 - no particular change - young bush pretty - bird next doorish pecked at plant while I took them - can push with them Wed - not a great deal of change in appearance.

Arrived at 830

Sat Apr 19 - went out to no 4 — 4 young hatched and another lying in well spent egg shell. - other young begged indirectly I feel that they had hatched late yesterday. - The young one partly hatched was not no 5 — but Number 4 or 7 - number erased - and looked to me as though it had been lying in egg for a long time — membranes thoroughly dried. - I broke it out finally. Sanders not on at time I arrived but came soon after. - no greater fuss than when they had eggs - no 6 not pipped and looks like might be infertile or dead.

no 3 - young were fed 7 times in 10 min at 8. AM — young overflowing nest - some on edge & one moved off into bushes beside - Took one which was rather belligerent at times but let me approach readily — would take dark corners of cage - strong well.

Apr 21 1910 16th

Young all crowded in to nest — noted a little as I approached but crouched down perceptably when the ♀ started giving jay — screech — male did not join in for first —

I went on to artichoke pile which had just recently been burned — must have caused excitement for shrikes. ♀ continued occasional jay — screech and chased nest, upset + dropping fecal pellet at north end — closest yet — She is now frequenting this part quite often. Does not seem at least to day purpose because I am in direction of pile.

5 remains on Eggbirds. ♀ occasionally gives begging note — then warning screech. Once approached male — gave this not — did not see anything dead food. — Once approached nest without giving screeches young moved + some opening up + I could not see that she fed them.

An action I have failed to record is the continued waving of tail when a bird is disturbed. In this way I can tell if actions are bothered by my presence — in fact three has been noted more in ♂ but ♀ doing a good deal of it now.

I sat quiet for some time - female
& would & yet fooled - young would &
beg but still with Squeaks not
the older begging note. Female
is giving this a good deal though
and male was heard to do it at
same time - louder however
& did more of it however - flutter
wings at young at nest or just
while sitting about. - young not
spotted but rather excited by this
note.

This begging may be a mild excitement
and disturbance manifestation as
tails still flicked and occasional
screech given. - as soon as I move
screech given - bird obviously ill at
ease & easily bothered. - normal feeding
can not be observed therefore.

Weighed young which jumped and
tumbled over & tried fight, nest - gave
screeches & defense which infuriated
parents & both parents at times
gave - begging note - both generally feeding -
young about same stage as the one
I took sat from no 3. - wings same
and - chin unfeathered - vermiculations
of two sorts - a coarse and a
fine - variation as to dorsal color
some noticeably darker - darker
than young one I took from no 3

young would not stay in nest – except for one of them but climbed 2 or three feet out through limbs even the small one – who just now fell and injured self – perhaps fatally – hit hard ground – its feathers were not developed like others and fall was not broken. – others climbing higher! – Finally stumbled up to bit and although would perch and climb a little – I gathered it in nest and left it – one other alive in nest.

Went to no 7 – bird flushed as I walked under her. Eggs all pipped – even no 7 – however 1 of 6 are well cracked and always in more than one place while no 7 has one small cheek only. Eggs weighed – bird not present at my first trip up but came into limbs not far away at the other trips – jay-screech and racket note only three heard.

Two bird one sat side by side within 10 ft of me – they are identical as far as I can tell at that distance.

Left at 11. a.m – none hatched yet – though could hear young working inside.

no 4 – bird sitting as I approached and left only after shaking her beneath. She then acted as usual going to dead tree and usual trees coming in to nest when within

five feet of me — 4 young only — one gone Ichneumon which I don't know but no trace of it in bottom of nest — egg no 6 is infertile or dead — no signs of hatching — I left it in nest.

no 3 - young jumped as my hand came within 1 ft of nest. They were sitting on nest edge — perched — not crouched down in and flattened and scrambled ~~2~~ 1 of 2 put away — no more advanced in action or feather growth judging from tail and chin than each bird.

Cage bird - now loosing fear — objects by opening mouth and giving hoarse scream note when I handle him however. Begging note still a faily weak but beginning husky tchekp in rhythm. Now rops "~~twitter~~" with fat ball under him. can not fly but my beak fall — things disgusted rather than jump. Begs a little when sees me approach with food in hand.

Once in a while gives the rhythm — ~~3 or 4 sec~~ 10 sec. I scream note as a lonesome - lost young one gives in grass — seemingly to make known presence & point — however he dreads of this — I suppose due to accustomy to surroundings

and perhaps due to increase age — yet I think not. — fecal measurements I have had him not with well formed sac — more liquid when excreted and runny about.

Apr 22 17th

— Arrived at no 7 at 9 a.m. both birds were on the nest as I drove up — They both went the minute I got out of the car passed 6 young very hatched and at least 4 at least dried up — I am sure they hatched late yesterday — stomachs showed that some at least had been fed.

no 7 was well pipped just as those of yesterday — whereas it had only one pip yesterday

Parents came and went 6 ft — one has a peculiar rhythm to his excited note that I have heard others give — I believe he is the male as he is less rumpled up in tail and under feathers. I am certain that he is more than a year old. — I could see that pin and secondaries were nearly black.

Did not weigh eggs or young

A233268 returned July 27 1932

no 6 – female nest to me with gay chirps at bridge when I approached – at 920. Male not present. Young all were back in nest – except for one – No young other than the two remaining in nest were closer than 5 ft to nest and two were 10 ft from nest when I left them – but five in nest this a.m. – One jumped up and climbed off through tree as I approached with hand – other four ducked low and would not let go of twigs – I did not disturb them except no 6 the – one that fell yesterday. It still smelled a little swabby but could perch ok. – It was in same position in nest as when I left it yesterday.

Parent did not quit down much when I went to obs post but flew to young in tree then to nest – chirped it nice – it was ~~both~~ ~~dad~~ dirty in bottom yesterday other nest of young were gone She flew to ground several times and fed self I think but was very nervous – twitching tail and flying back and forth three times – scratching and digging a few times –

Male did not appear by ten —
I fear he has met with trouble
as never before has he or she
failed to join mate in attack after
a few minutes. — Left with one
young high in tree — other 4 in
nest. old

no 3 — both birds seen on wire
above nest tree at 8 45 —
at 10 30 — I went to tree and
found me young sitting above
nest 8 inches — other could not
be seen in dense foliage or else
were gone — birds not as demonstrative
as before. — this about the 19th
or at least 18th day from hatching —
can not fly yet.

Young cage bird can not fly yet.
Still gives scared — note occasional
wildly trying to get out of cage but
not as much as before.
Can hop farther 6 inches and hit
with accuracy on perch — still
clings rather than jump when
on hand
A fine coating of feather scales
was noted above his usual
perch.
He can cling well to upright
slippery parts of metal scale —
grasping sideways and holding

firmly. - Wt has stopped increasing now 47.+ gr in a M - Big boy rely 44.

This P.M. during one of his active moods - young one went to edge of big cage and climbed up both feathers and panted all the way to top — stopped calling, chirp, and seemed content

Another time jumped and flew from small cage top to small screening in corner — 2½ ft and 1 ft drop - at in position - much shocking of head and inspection before jumping — a real flight however! the first I have seen from him —

Begging notes still the squeak — or chirp chirp ——— in fast succession - then may drop into lower pitched "peep" note

nest

Apr 25 — Arrived at no 6 at 9 AM. A single bird was on the dead willow at S end of the nest row. It flew past me to the E over the road but returned as I crossed the bridge and went toward the nest. I arrived today to find 4 young still in nest — three of them left before I touched them — the first leaving when I came within 10 ft. & the smallest — no six did not leave the nest and I finally lifted him out — he was quite normal and hopped & thrash limbs without the toddling of weakness shown go[illegible]ing his fall from the nest. The leaving of the nest today, then, was normal in so far as being actually being touched was concerned except for no 6. — The nest was badly feathered and not well shaped on margin. The ground around is beginning to show obvious spotting

Female only is present and looking much bedraggled below and on tail. — She does all feeding and was continually on the move feeding between E nest and 70 yds to N Winfield. Many trips & each nest — the other two young of the six were found in the nest across from the nest tree — all six then are O.K.

At the distance of the bridge I could hear the husky "lost squall" given as the female approached — this was not given when birds were moving about when I was near the nest and female scolding. These notes turned into a husky rhythmic begging squall — typical of Juvenile chickens on the wing.

♀ fed on an average of 2 times in five minutes for the hour 9–10.

Female gave only scolding

and no begging notes today.

no 3 - both parents feeding - going to nest but still. - young could be heard as at six

The cage bird from this brood this morning gave the husky begging note with the wing flutter - not heretofore heard of him. He gives it only when ravenously hungry and returns to the faint cheep when mildly hungry. Evidently he is well fed.

Today he flew - 3 ft on level - hesitated & looked back in taking off - and flies from hand easier rather than clinging desperately.

Bullock Creek — at Shrine loc. 6.
Apr 25 — Males heard for some time — about a month and song recorded. — Females present for a week I am sure and probably longer. Today noticed pair at bridge trying to invade the territory by the bridge held by another pair. The pair (a) would dash into the territory by B from the tree E in ravine — males would clash & a return to Bridge rail — sometimes chased off by here. — Female B would dart toward pair but close and ~~scratch as~~ screech the harsh note that the ♂ B gave. Female A would commonly, 6-7 times, lead way to tree — male following — once male went and female followed. Female B once pursued at ♀ A as ♂ B attacked ♂ A when all four in tree by bridge. Pair A when repulsed to bridge would sit on top and ♀ then chase

after male — running him along the fence top giving chase — rather clear with little of the bounce hugging of young — in rhythm with flutter of wings and squatting posture — head and head elevated but tail not fanned. She pursued thus the length of bridge rail — then off and when they would go off nearby dirt bank or tiles to rest. — sitting with female in full song and male usually but not always quiet. ♀ song 5 to 10 of male — in other pair ♀ also heard but male though could not see so well in these — this female song some but slightly less than ♂ male. females song from ground but males only from tiles.

Several times (10 at least) female a was hugging of ♂ A — ♀ B dropped down chased ♀ a and squabbled with her middly on ground once the two sitting up and both singing facing

each other although not simultaneously. Other time ♀ B drove ♂ A from [illegible] for a few seconds and then returned to court ♂ A by running from along fence as did other female. Female A usually returned and contested that right at time both following walk & courting or begging from - he was most calm & acted just quietly side-stepped them. Till this time male B would be singing in the top above only noisily driving male A from bridge. (Female B would also be from male B)

Female B song was [illegible] throughout and Female A [illegible] neither had full male [illegible] 1/5

Maximum interval of male about 1/6 - and shop from sustained sequence to consist about 2 notes do + eah (1 1/2).

Females never gave full turn at end - and tapped off in cramped style.

Analysis of action. ♂ counters ♂ in defence of territory. ♀ counters female in defence of territory and in defence of another ♀ courting a male within her territory as she feels may be here male. ♀ ♀ probably also males attracted to any one of opposite sex even tho there be two of this sex in this territory — no repulsion of opposite sex.
Female the agressor at this stage — full as combative — and full as adventurous as male in holding and seeking desirable territories.

April 27. ~~28. Mon~~ Sun

Went out at 10 a.m to photograph the nest and young of no. 7.
The adult birds did not come within camera range and were not shot.
Young were not hungry during hr & ½ — old bird made usual pass although didn't come quite as close as usual.
Did little else than photo — visited no other nests.

Monday April 25
— young cage bird gives whistling food call with vocal flutter when very hungry but only gives faint twitter when begging most of time. Yesterday and today he has apparently stood up full length and fluttered wings giving a version of the bracket note — it is not of full sharpness as yet. Seemingly this is is just an elaborate stuttering.
He can now take off from (over) the table and fly up to the cage!!

top (large cage) but usually does not venture such long flights

Two days ago he was in cage with Big Boy who flew onto him in an attack — the little fellow toppled off flattened to the ground giving excitement and four screeches — not much of adult — more a cry developing on higher pitch from the screeches noted — landed in pan of water and held wing up over head — mouth open — head thrust out in defensive attitude. He held this even though Big Boy did not come down after him — and even after I picked him up.

He seems on the whole to recognize me — certainly as the source of food. He's often seemed at other people entering room and occasionally of me when I first enter in the morning

The bill wiping which started

about four or five days ago is more frequent and reflective — he now picks at top of cage and investigates all small objects with beak. watches flies or moths in the room. He will now pick meat off of forceps and if very hungry off of the perch as I lay it down but not after I have left it. Once ~~he~~ he took meat and held in bill after being well fed and then tried to lay it down on perch as adult does — carried it to another perch and then dropped it completely.

A hawk was presented to him — Red-tail — yesterday and he toppled over backwards on perch taking defence attitude and giving a few ~~shrieks~~ shrieks note.

Apr. 30 25th

Went to no. 6 at 1:30 P.M.
Four of young were sitting in
dead tree at nearest end of bridge
line of trees in which nest was
located.

The ♀ only was present and
fed occasionally but was greatly
disturbed by our efforts to photo
the young. She did little fussing
and then only at a distance.
Young rarely paid attention
to scolding but once seemed
to quiet down. By moving
quietly I could approach to
within 6 ft of young but
then they made off through
trees or shot feet one to the
other. The kept giving the
oring note and once the female
offhand set up the customary
clamor. I did not hear the thin
call of the ♂ bird — perhaps
they were all too hungry and
I was not close enough.

The young are now without

the bird could not fly from
tree to tree and once on the
ground could not get up. — although
I could climb up trunks and
up into tree — I he felt very
thin and light.
As I left several of young
flew to within 8 ft of bridge
making it in one flight without
boarding but zoomed up
as usual at end. All six
run it one time or one
occasion.

no 4 — approached nest — a bird
running into tops — then on up
road & turned and gave one
or two screeches & then
disappeared.
Young gone — not of own
accord as were only 11 days old.
Nest lining torn out — Egg no 6
still in nest.
Only the one old bird seen but
I did not hunt region.

Cage Bird

May 2 – now flying well. – notes not much changed / a little stronger Staccato notes little developed – will pick up no better – more curious now – runs around room and flies to top of large cage. Wings are nearly grown.

May 6 – Arrived at no 7 at 2:10 Both birds seem on approach – one going to nest, the other on the wire by the road. Young were scared and stuck fast to the nest – adults much more demonstrative than before – showed great excitement and when young gave cry of fear came within 2 feet. I spent most of time photographing – young well feathered and restless are removed from nest. could not persuade me of them to stay on nest and he dropped to grass below where he disappeared. Wings spread

enough to check fall.
Young all banded.
A diffuse in behavior of the two parents was noted. - one came closer - screeched towards other with more worn tail ♀ stayed a few feet back and one in a while gave begging note - a less vigorous attack. - same diffuse quality as between ♂ & ♀ of no. 6.
Went to no 6 - at 330 - wind blowing hard - clear with occasional clouds. Young heard - one down creek below train road bridge - another flushed from bank near nest and later one seen in eastward tree - evidently well scattered but occasionally giving screaming note and when female arrived giving usual squalls. Young no 6 found dead at base of one of trees in nest row - last night evidently rose bushes - was not torn up - seemed to have died of hunger

or from rain which was fairly heavy for a while Sunday night — body this when last handled on Apr 30.

A shrike heard singing one up towards eucalyptus + could not locate it for wind and no trace of it seen on regular Sunday nor about yard. Female seen foraging in mustard field to N/E.

One of young took attacked by a Towhee (brown) and scolded at by Brewer Blackbirds - he merely flew on — gradually shrike is recognized in juv. plumage.

May 10 — Cage bird — yesterday bird was sick - spat up meat and had frequent spasms — toward late afternoon he improved, however, and became violently hungry — Was again very hungry this morning.

May 10 — Birds not found at no 6 for some time — at 9:30 a bird was seen at the East line and later out on the field — a bird appeared from the east and flushing followed — one bird I presumed ~~was~~ female no 6 remained on territory and other went back to power line by R.R. — I could not again find female 6 and waited up to territory 6a to see when I heard a shrike sing during my last visit — found pair and at least one young with tail shorter than no 6 now would be. — he flew across road DS into cornfield — then back — there were more than are but they hid in trees and were quiet part of time and when fed not very noisy — two young. At 11 found them young of no 6 DS of road near bridge — female roosting & feeding occasionally — young fledged

three fed silver dropping to ground – only three seen – they sat in apple in part of time and gave scrap notes occasionally forelowed female to ground and to three several times. but sooner or later turned to cover of willow female staying out on open wire. three stuck close together – however may have been other young around.

left 11 am Wants no 7 – three young left in nest and left as I came / written left in the others not seen but not looked for – parents excited as at last visit. Young went to ground and baffled about / broken wing adult.

Two birds seen on wire at no 3 – I think both adults – seen from main highway only.

May 12 – young bird recovered and sitting today for first time – chuckles and giggles etc. Has been drinking for several days. Will catch insects readily – flies, ants, mealworms etc but

will take meat only by stuffing in partly due to habit & think and also fail to injale & malise meat as food. Did not have tranxelith from worms & ~~state~~ as others did last year this may have been a help to them last year.

May 16 – starved Bird in attempt to get it to feed on meat – finally got desperate and would pull small pieces off & tweezers and put pulped small pieces. He wishes to take food in small pieces but has for sometime I now believe so took golden bad association with meat due to my cramming it down him while feeding him.

May 17

Went to no. 6 could not find birds after 9 hour hunt 9:30 – 10:30. Found yang at 6a which even more lachfull and I spotted three at last at nest. – Parents feeding No 3 – yang not found and parents

not feeding seemingly — one singing lustily and gave all signs of starting nesting again.

No 6a - a brood found just at edge of Pinus wood I hide seen thrice several times. 4 young seen at once and are fairly.

No 6 - both birds present - I located one young (only) in oak old birds made some fuss at a distance - young stayed in cover and would not leave tree - other young may very well have been in ~~the~~ thickets.

Cage young still hard to feed but ~~some~~ better - inquiring and trusting in affection and pink - ~~tires~~ worn and just legs. ~~Once I have tried~~ To take bath in small drink cup — for first time — fair success. Started after I had cleaned out with wet cotton — fluttered over water shaking all over and then

got in. Most of mine parts got wet.

May 27, - At 1:30 PM stopped by number three and four found young in nest in an acacia diagonally across the street, 40 ft from the the last nest. The young were at least a week old and four in number. The nest was smaller than the previous one, badly tilted from the weight of young and insecure fastening. Its composition was largely string and cotton as was the last one. This nest must have started not later than two days after I last saw the young of previous brood or when the young were only 7 days out of nest. Evidently they lost this first bunch of young perhaps at the same time that no 6 & no 6 brood died & do at night in part to a rainstorm at the same time. This bunch of four may have lost some young as nest could easily have spilled them out.

At no 7a the two parents were seen and at least three young which were now scattered. Two which were in the rose bush sought shelter by hiding rather than flying - the one parent giving warning of distant scratch at the same time. They hid in dense thorns at base of bush — one getting caught for a while so he could not move and later squalled with fear as I approached with hand. However I could not catch it. They were very hard to keep from Squawks.

At 7 — four young at last were seen and I think five - they grouped together usually hunting back two and later on top of eucalypt - jagged and gardened parents back and forth. Fairly tame - came down and curiously inspected me as I stood under oak. Parents did not come close but gave a few of their regular warning notes — both seen. Young gave first shrike screech

as they watched me under oak. At other times gave magpie like scraig and whistling beg.

no. 6 – two young banded chiffs found in bottom E of ridge one with foot injured and bruised. Both feeding fr selves – no parent seen or heard in 1½ hours. Several times went to old nest one going to nest on one occasion straight. I think by chance only. Each went to farthest ~~E~~ tree east. Only two seen.

no 7a – two young seen but thought I heard them once in the wood. One parent seen feeding along the fence to S.

no 7. – pair have built nest in the old nest of previous year either three a other birds in the nest NE. – 30 ft from last nest. Female flushed as I walked under tree. Both birds on top of tree while inspected. Nest is of same

construction, small, poorly lined, thin edged, and made chiefly of rootlets. However slightly better than last nest - not very well secured in dead hanging branches at E side, back from margin. 7/ty. Eggs 7 - small as before & apparently but more heavily pigmented although of the same sort of pattern & color. Incubated moderately - at least 5 days perhaps considerable more.

Aside/ Found Anish nest of pair east of bridge in the first cedar - a open topped nest with several small young about 3 days old - heavy feathers down. - Hard squeaking - thin squeak - mut oft up on overhanging bill.

Found nest of pair west of bridge - birds chattering - young 4 - 10-12 days old at least + well feathered and crouching in fear. Nest excellent construction - perfect rounded bottom neck opening.

much neater than other nest —
30 ft up in ~~crown~~ near crown toward center of willow 2nd west of bridge. Near a main limb.

June 6 1930 — #7 at least five and I think six young found along the fence on the south edge of the territory. Several of the birds were seen. They tended to stay close together that is on the same section of fence line — not closer than 5 feet usually. They were finding for selves and were not heard to beg I scared several down to road and into willows. An old bird cheeped and screeched defiantly as I chased young. Young did not beg however. Old bird followed back ~~down~~ toward nest tree. A bird had been heard singing here on the way out. The pair of adults was flushed from the oaks on the hill. A nest of six (large) eggs was located in lower branches of oak at downhill

side. Well concealed and hard to get to — nest 15 feet from nest no 1 built of same construction but somewhat inferior — not as well lined. Eggs arranged in 2 2 2 series. Looked like fresh a just started — warm. one taken. Parents shy — just as before about nest with eggs.

no 6 — one young seen for history

no 4 — young hatched except for one egg and from which young was taken as specimen Feb 5.

no 3 — last young flushed from nest & flew out into field.